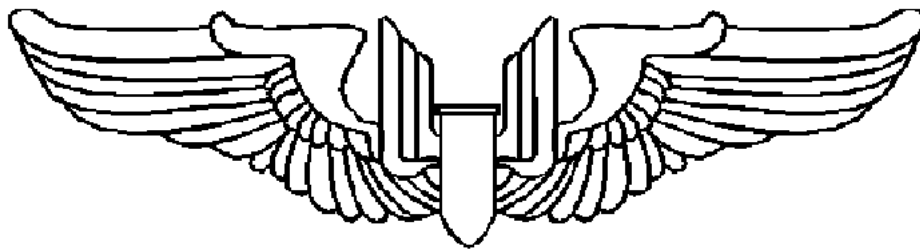


DEPARTMENT OF THE AIR FORCE
Headquarters, United States Air Force
Washington, DC 20330-1480

CFETP 1A7X1
Parts I-II
1 December 2011

AFSC 1A7X1 AERIAL GUNNER



CAREER FIELD EDUCATION AND TRAINING PLAN (CFETP)

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CAREER FIELD EDUCATION AND TRAINING PLAN
AERIAL GUNNER
AFSC 1A7X1

PART I

Preface

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.

2. The CFETP consists of two parts; both of which are used by management to plan, manage, and control training within the career field.

2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples of resource constraints are funds, manpower, equipment, and facilities. *Note: Air Force Enlisted Classification Directory (AFECD) and AFI 36-2101, Classifying Military Personnel (Officer and Enlisted), contain the specialty descriptions.*

2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen satisfied training requirements. Section C identifies available training support materials. Section D identifies a training course index that is used to determine resources available to support training. Included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements.

3. This CFETP is designed to ensure individuals in AFSC 1A7X1 receive comprehensive and effective training at the appropriate phases of their career. At the unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

Air Force Career Field Manager (AFCFM). Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat to ensure assigned AF specialties are trained and utilized to support AF mission requirements

Aircrew Fundamentals Course (AFC). A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, anti-hijacking and anti-terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety, and flight medicine. This course screens for the ability to handle the rigors of aircrew duties prior to candidates entering expensive follow-on training resources.

Advanced Training (AT). Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career Airmen at the advanced level of the AFS.

Aircrew Training System (ATS). A system wherein a civilian contractor provides academic, simulator, and other designated aircrew training. ATS courses are listed in the applicable AFI 11-2MDS-Specific, Volume 1 or the Education and Training Course Announcement (ETCA) website (<https://etca.randolph.af.mil>).

Basic Aerial Gunner (BAG) Course. An academic course designed to cover the fundamentals and applications of basic gunner duties and responsibilities. This course awards AFSC 1A7X1.

Basic Aircraft Qualification (BAQ). An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

Basic Mission Capable (BMC). An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain Mission Ready (MR)/Combat Mission Ready (CMR) status.

Career Development Course (CDC). A self-paced course designed to upgrade a skill level and provide the information necessary to satisfy the career knowledge component of OJT. CDCs contain information on basic principles, techniques, and procedures common to an AFSC.

Career Enlisted Aviator (CEA). An individual with a primary AFSC of 1AXXX or 1U0XX (Aircrew Operations).

Career Enlisted Aviator Center of Excellence (CEA CoE). The USAF CEA Undergraduate Training Center located at Lackland AFB, TX. Provides undergraduate, initial skills training through award of the 3-skill level.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive core training document that identifies: life-cycle education and training requirements; training support resources, and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training.

Crew Resource Management (CRM). The effective use of all available resources—people, weapon systems, facilities and equipment, and environment—by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term “CRM” is used to refer to the training program, objectives, and key skills directed to this end. MAJCOMs may implement their programs as either "cockpit" or "crew" resource management based on their respective missions.

Combat Mission Ready (CMR). An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit combat mission.

Continuation Training (CT). The continuation training program provides crew members with the volume, frequency, and mix of training necessary to maintain proficiency in the assigned qualification level.

Course Objective Lists (COL). A publication derived from initial and advanced skills Course Training Standard (CTS), identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3- or 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations.

Course Training Standard (CTS). A training standard identifying the training members will receive in a specific course.

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade Airmen in each skill-level of a specialty.

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

Initial Qualification Training (IQT). Training needed to qualify aircrew for basic aircrew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

Initial Skills Training. A formal school course that result in award of a 3-skill level AFSC.

Instructional System Development (ISD). A deliberate and orderly, but flexible process for planning, developing, validating, implementing, and reviewing instructional programs. It ensures personnel are taught, in a cost efficient way, the knowledge and skills for successful job performance.

Lead Command. A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the process of developing and maintaining a force structure with a balance of complementary capabilities.

MAJCOM Functional Manager (MFM). Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the aircrew career fields and aviation resource management within the command. This includes, but is not limited to, responsibility for the aircrew training programs, coordination on aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

Major Weapons Systems (MWS). For the purpose of this CFETP, MWS consists of all applicable airborne platforms with a crew complement including at least one 1A7X1.

Mission Capable (MC). Status of an aircrew member who has satisfactorily completed mission qualification training, but who does not maintain mission ready status.

Mission Design Series (MDS). A term used to identify a specific aircraft designation (e.g., AC-130H, HH-60G).

Mission Ready (MR). An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

Mission Qualification Training (MQT). Training needed to qualify aircrew in an assigned crew position for a specific aircraft to perform the command or unit mission.

On-the-Job Training (OJT). Hands-on, "over-the-shoulder" conducted to certify personnel in both upgrade (skill level award) and job qualification (position certification training).

Practicum. A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an aircrew member in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do a job.

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

Retraining. The overall objective of the retraining program is to balance the career force of each AFSC as needed. Additionally, the program allows individual Airmen a choice of career fields from which to pursue an Air Force career and provides a method to return Airmen disqualified from their current AFSC to a productive status.

Specialty Training Standard (STS). An AF publication that describes an AFS in terms of tasks and knowledge an Airman in that specialty may be expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools and correspondence courses.

Standard. An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

Total Force. All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

Upgrade Training (UGT). Mandatory training that leads to attainment of higher level of proficiency.

Utilization and Training Workshop (U&TW). A forum consisting of the AFCFM, MAJCOM functional managers (MFM), Subject Matter Experts (SME), and AETC training personnel who determines career field training requirements.

Weapons System Training Package (WSTP). An instructional course which includes IQT, MQT, and CT designed for use at the unit to qualify or aid qualification in a duty position, program, or on a piece of equipment. The WSTP may be printed, computer based, flying, simulator, or other audiovisual material.

Section A - General Information

1. Purpose. This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an Airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job (OJT) training, provided to personnel to maintain their skills and knowledge beyond the minimum required. The CFETP has several purposes, some are:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program.
- 1.2. Identifies task and knowledge training requirements for each skill level in this specialty and recommends training and education throughout each phase of an individual's career.
- 1.3. Lists training courses available in the specialty, identifies sources of training, and the training medium.
- 1.4. Identifies major resource constraints that impact full implementation of the desired specialty training program.

2. Uses. The plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

2.1. Training personnel will develop and revise formal resident, non-resident, and exportable training based on requirements established by the user and documented in Part II of the CFETP. The lead command MFM will work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed training to support this Air Force Specialty Code (AFSC) must be identified for inclusion in this plan and must not duplicate available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

2.4. Personnel in AFSCs 1AXXX or 1U0X1 are exempt from maintaining OJT Training Folders (AF Form 623). That training is certified via AF Form 8 by trained flight examiners. Certification of the AF Form 8 eliminates the requirement to document STS items in this CFETP.

3. Coordination and Approval. The AFCFM is the approval authority. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Forward applicable inputs/changes to this CFETP through MAJCOM functional managers to HQ USAF/A3O-AM, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: afa3oam.workflow@pentagon.af.mil.

Section B - Career Progression and Information

4. Specialty Description

4.1. Specialty Summary. Inspects, operates, troubleshoots and secures armament systems and subsystems and performs aircrew functions under training, combat or testing conditions. Instructs unit gunners concerning airborne weapons systems, procedures and tactics. Related DoD Occupational Subgroup: 646

4.2. Duties and Responsibilities.

4.2.1. Operates airborne weapon systems and associated equipment. Performs preflight and postflight inspections of guns, defensive systems and related aircraft equipment. Participates as a crewmember during training, combat and test missions. Uses night vision goggles (NVGs) to perform scanner duties in relation to particular aircraft type and mission. Operates aircraft systems, auxiliary and rescue equipment as dictated by mission requirements. Assists and coordinates with other positions to ensure safe employment of weapons, defensive systems, and other related equipment. Performs aerial gunner functions as dictated by aircraft and mission type during integrated air or ground operations. Maintains munitions account or sub-account and forecasts for ammunition requirements. Positions and manages ammunition and weapons systems to ensure maximum economy of force. Assists the flight engineer during aircraft emergencies and remote operations.

4.2.2. Performs in-flight maintenance of airborne weapons systems and associated equipment. Ensures maximum availability and utilization of weapons systems. Performs all pre-strike, strike and post-strike requirements with special emphasis on malfunction analysis and repair. Applies quick and decisive action to restore malfunctioning systems to operational control. Conducts thorough airborne analysis and evaluation of weapons and defensive systems and associated equipment. Documents all malfunctions and discrepancies.

4.2.3. Adheres to flying, weapon and explosive safety standards, conducts in-flight and ground training in all facets of aircrew duties, airborne guns, defensive systems and related equipment.

4.2.4. Plans, organizes and directs aerial gunner activities. Establishes standards governing safety, work methods and procedures. Provides resources, equipment, directives and technical information appropriate to the mission and assigned aircraft. Evaluates operational efficiency of aircrews and systems. Analyzes trends affecting aircrew performance and takes necessary actions.

5. Skill/Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1A7X1 career field flow charts identify the training career path. They define the training required in an individual's career.

5.1. Apprentice 3-Level. Completion of the Aircrew Fundamentals Course (L3AQR1A711) at Lackland AFB, TX is mandatory for pipeline and non-aviation service cross training students. Basic Aerial Gunner Course (L3ABR1A731) at Lackland AFB, TX is mandatory for award of the 3-skill level AFSC. Initial skills training requirements are identified and revised (if necessary) annually during the 1A7X1 Utilization and Training Workshop (U&TW). Task and knowledge requirements are identified in the STS, Part II, Sections A and B. Individuals must complete an initial skills course to be awarded AFSC 1A731.

5.2. Journeyman 5-Level. Upgrade training to the 5-skill level in this specialty consists of tasks and knowledge training provided in Career Development Course (CDC) 1A751 and minimum 12

months upgrade training. Individuals in retraining status are subject to the same training requirements and a minimum nine months in upgrade training.

5.3. Craftsman 7-Level. Upgrade training to the 7-skill level in this specialty consists of holding at least the rank of SSgt and 12 months upgrade training. Individuals in retraining status are subject to the same training requirements and a minimum six months in upgrade training.

5.4. Superintendent 9-Level. Upgrade training to the 9-skill level in this specialty consists of holding the rank of SMSgt, meeting mandatory requirements listed in the *Air Force Enlisted Classification Directory (AFECD)* and AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)* and supervisor's recommendation.

5.5. Chief Enlisted Manager (CEM). CEM code is awarded when selected for promotion to Chief Master Sergeant.

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Aerial Gunner specialty. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

6.1. Initial Skills Training. Initial physiological training will be conducted at Aircrew Fundamentals. The initial skills training will be revised to provide training needed to prepare graduates for Aerial Gunner related positions.

6.2. Five Level Upgrade Training. The AFSC 1A751 CDC provides required training for upgrade in the Aerial Gunner related positions.

6.3. Seven Level Upgrade Training. The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all 1AXXX and 1U0XX (Aircrew Operations Career Field) personnel.

7. Community College of the Air Force (CCAF) Academic Programs. CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) Degree. Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged. See the CCAF web site for program details regarding the AAS degree at: <http://www.au.af.mil/au/ccaf>. Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: <https://my.af.mil/afvecprod/>. In addition to its associate degree program, CCAF offers the following:

7.1. Occupational Instructor Certification. The College offers the Occupational Instructor Certification to instructors teaching full time in a CCAF affiliated school. To qualify, instructors must complete an instructor course, a Teaching Practicum, have two years teaching experience, hold an associate or higher degree, and be recommended by their commander/commandant.

7.2. Instructor of Technology & Military Science Degree. This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Applicants must complete three semester hours of CCAF-approved instructor methodology coursework and hold their career field related CCAF degree or equivalent civilian college degree before registration.

7.3. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.4. Degree Requirements. All Airmen are automatically entered into the CCAF program. The current program associates degree available from the CCAF for AFSC 1A7XX is the Aviation Operations Associate of Applied Science degree. Prior to completing an associate degree, the 5-skill level must be awarded and the following requirements must be met:

Subject Area	Semester Hrs
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
Total	64

7.4.1. Technical Education (24 Semester Hours): Twenty-four semester hours are required to fulfill the technical education requirement. A minimum of 12 semester hours of technical core subjects or courses must be applied and the remaining semester hours applied from technical core or technical elective subjects or courses. Requests to substitute comparable courses or to exceed specified semester hour values in any subject or course must be approved in advance by the Technical Branch at CCAF.

7.4.1.1. Technical Core (12-24 Semester Hours):

Subjects/Course	Max Semester Hrs
Aerial Gunner Principles/Procedures	24
Air Transportation Principles	6
Aviation/Flight Safety	6
CCAF Internship	18
Flight Rules and Regulations	3
Introduction to Aviation/Aeronautics	3
Survival Training	6

7.4.1.2. Technical Electives (0-12 Semester Hours):

Subjects/Course	Max Semester Hrs
Advanced Flight Engineering	12
Aerodynamics	3
Aircraft Systems	6
Aircraft Weight and Balance	3
Aviation Law	6
Climatology/Meteorology	6
Computer Science	6
Electricity/Electronics	6
FAA Airframe and Powerplant Certification	6
General Chemistry/Algebra-Based Physics	4
Human Factors in Aviation/Flight Physiology	3
Human Relations	3
Private/Commercial Pilot's License	3

7.4.2. Leadership, Management, and Military Studies (6 Semester Hours): Professional Military Education and/or civilian management courses. See *CCAF General Catalog* for application of civilian management courses.

7.4.3. Physical Education (4 Semester Hours): This requirement is satisfied by completion of Basic Military Training.

7.4.4. General Education (15 Semester Hours): Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and be in agreement with the definitions of applicable General Education subject/courses as provided in the CCAF general catalog.

Subjects/Course	Semester Hrs
Oral Communication (speech)	3
Written Communication (English composition)	3
Mathematics (intermediate algebra or college-level mathematics)	3
Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology, sociology)	3
Humanities [courses in fine arts (criticism, appreciation, historical significance, foreign language, literature, philosophy, religion)]	3

7.4.5. Program Elective (15 Semester Hours): Satisfied with applicable Technical Education, Leadership, Management, and Military Studies or General Education subjects/courses.

7.5. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associate's degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

8. Career Field Flow Charts.

Figure 1. Enlisted Career Path

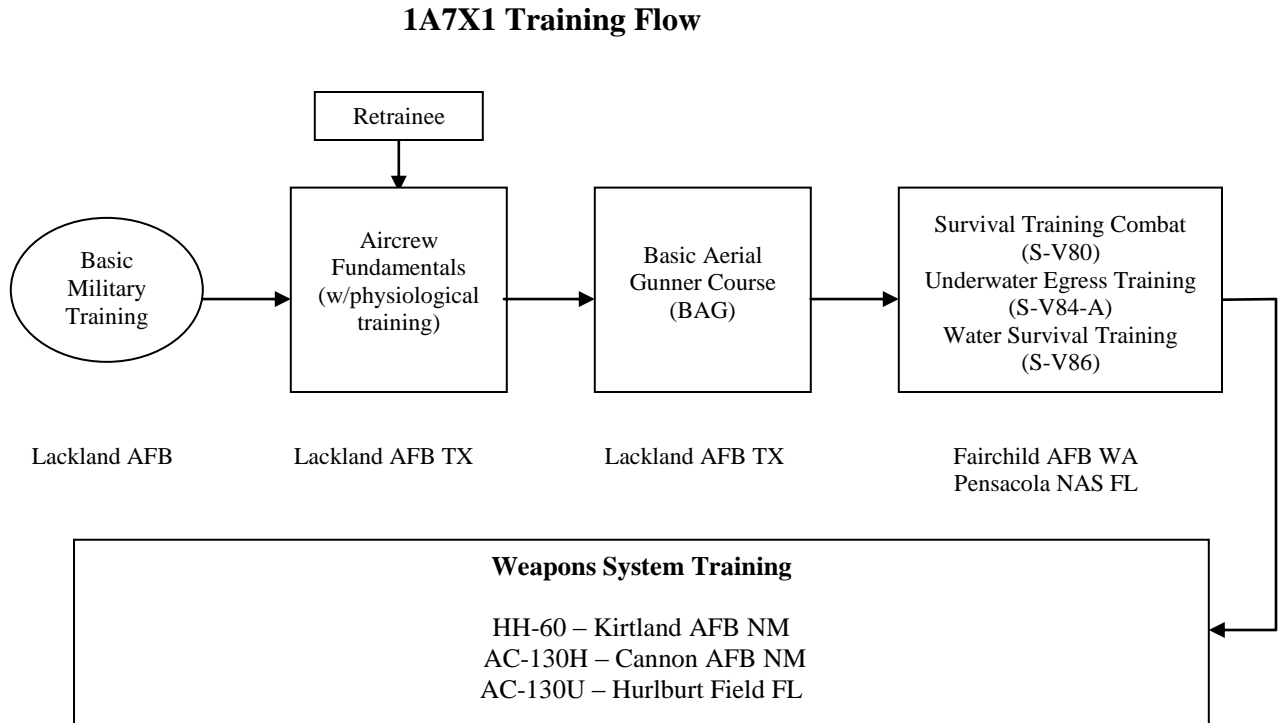
Figure 2. 1A7X1 Training Flow

Figure 3. Aerial Gunner Training Path

Figure 4. Assignment Locations

Enlisted Education and Training Path					
	GRADE REQUIREMENTS				
Education and Training Requirements	Rank	Earliest Sew-on	Air Force Average	1A7X1 Average	High Year of Tenure (HYT)
Basic Military Training School (BMTS)	AB				
Apprentice Technical School (3-Skill Level)	Amn	6 months			
Upgrade To Journeyman (5-Skill Level) - Minimum 12 months on-the-job training - Minimum 9 months on-the-job training for retrainees - Complete appropriate CDC	A1C	16 months			
	SrA	28 months	3 years	3 years	12 years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt selectee (ARC: Must be a SrA with 42 months time in service to accomplish ALS by correspondence) - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only)					
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt - 12 months OJT - 6 months OJT for retrainees	SSgt	3 years	7.5 years	4.6 years	20 years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt selectee - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for MSgt sew-on (ARC Only)	TSgt	5 years	12.5 years	10.7 years	22 years
USAF Senior NCO Academy (SNCOA) - Must be a CMSgt selectee, SMSgt, SMSgt selectee, or a MSgt selected to attend - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only) - Resident or correspondence graduation is a prerequisite for SMSgt sew-on (ARC Only)	MSgt	8 years	16 years	16.7 years	24 years
Upgrade to Superintendent (9-Skill level) - Minimum rank of SMSgt	SMSgt	11 years	19.2 years	20.3 years	26 years
Chief Enlisted Manager (CEM) - Minimum rank of CMSgt - Chief Leadership Course (CLC)	CMSgt	14 years	21.5 years	23.8 years	30 years
Data current as of 1 October 2011					

Figure 1



8.1. The flow outlined in figure 2 (above) represents the formal training courses required for personnel entering and becoming fully qualified in the AERIAL GUNNER SPECIALTY. The locations, course lengths, and titles are subject to change. Changes will be updated in the Education Training Course Announcement by the course owner.

8.1.1. The course flow has been developed and agreed upon by the MAJCOM functional managers to minimize days students are awaiting training and to ensure survival training is received prior to AFSC award--minimizing the impact of not having the prerequisites completed before entering weapons system training.

8.1.2. Personnel graduating from the BAG course are awarded AFSC 1A731 and are authorized to wear the Basic Aircrew Member Badge. Wear and permanent awarding requirements of the Basic Aircrew Member Badge will be IAW AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*, and MAJCOM supplements.

Figure 2

Aerial Gunner Training Path

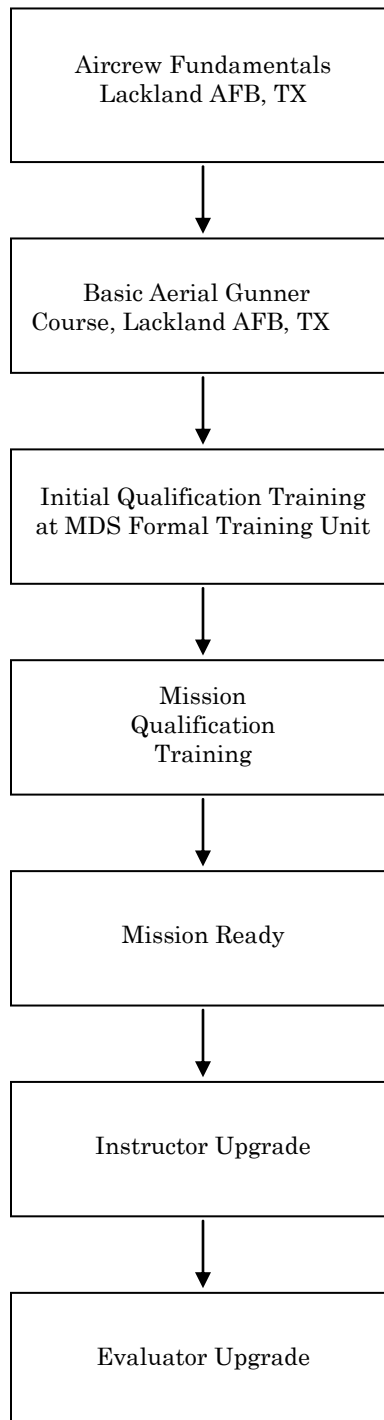


Figure 3

1A7X1 Assignment Locations

Location	CMS	SMS	MSG	TSG	SSG	SRA	A1C
Camp H.M. Smith, HI		X					
Cannon AFB, NM		X	X	X	X	X	X
Davis-Monthan AFB, AZ			X	X	X	X	X
Hurlburt Field, FL	X	X	X	X	X	X	X
Kadena AB, Japan			X	X	X	X	X
Kirtland AFB, NM			X	X	X	X	
JB Elmendorf-Richardson, AK		X	X	X	X	X	X
JB Langley-Eustis, VA		X					
Lackland AFB, TX			X	X	X		
MacDill AFB, FL	X						
Moody AFB, GA	X	X	X	X	X	X	X
Nellis AFB, NV	X		X	X	X	X	X
Pentagon, Washington D.C.			X				
RAF Lakenheath, UK			X	X	X	X	
Randolph AFB, TX		X					

NOTE: The authorizations listed above are subject to change without notice. Crewmembers interested in assignments to locations listed should consult their MAJCOM functional manager or the AFPC specialty manager for more detailed information about requirements for a specific location. ANG and Reserve component assignments are based on unit availability.

Figure 4

Section C - Skill Level Training Requirements

9. Purpose. Skill level training requirements in this career field are defined in terms of task and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and the Course Objective List at Part II, Section A and B of this CFETP.

10. Specialty Qualifications:

10.1. Apprentice Level Training:

10.1.1. Specialty Qualification.

10.1.1.1. **Knowledge.** Knowledge is mandatory of: Theory and application of electrical, mechanical and hydraulic principles as they apply to airborne weapons and allied equipment, components and systems; employment and care of ammunition and ammunition systems: principle of weapon employment and ballistic factors; use of personal equipment, oxygen and communications systems; aircraft emergency equipment and procedures, gun malfunction analysis and repair; use and interpretation of diagrams, schematics, charts, technical publications and flight manuals.

10.1.1.2. **Education.** For entry into this specialty, completion of high school is mandatory. Also, completion of mechanical or electrical courses is desirable.

10.1.1.3. **Training.** For award of AFSC 1A731, individuals must meet mandatory requirements listed in the specialty description found in AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)*. Completion of the Aircrew Fundamentals (L3AQR1A711 01AB) at Lackland AFB Texas is mandatory for pipeline and non-aviation service cross training students. Completion of the Basic Aerial Gunner Course (L3ABR1A731 048B) at Lackland AFB TX is mandatory for award of the 3-skill level AFSC.

10.1.1.4. **Other.** The following are mandatory as indicated:

10.1.1.4.1. Minimum Airman Qualifying Examination (AQE) score of Mechanical 60 or Electrical 45 is mandatory.

10.1.1.4.2. For entry, award, and retention of this AFSC, physical qualification for aircrew duty, including normal color vision and depth perception according to AFI 48-123, *Medical Examination and Standards*, Section 6G – Medical Standards for Flying Duty, Flying Class III.

10.1.1.4.3. For entry, award, and retention of AFSC, qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.1.1.4.4. For award and retention of AFSCs 1A731/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.1.1.4.5. Completion of SERE Training Course (S-V80) and Water survival Training Course (S-V86 or S-V90) is mandatory for all 1A7X1 personnel.

10.1.1.4.6. Must maintain eligibility to deploy and mobilize worldwide.

10.1.2. **Training Sources.** Completion of the Basic Aerial Gunner course at Lackland AFB, TX satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level. Completion of the Aircrew Fundamentals is mandatory.

10.1.3. **Implementation.** Entry into training is accomplished by initial accessions from BMTS or approved retraining from any AFSC. After graduation from course, initial qualification training (IQT) starts when an individual is assigned to their first duty position. Thereafter, upgrade training is initiated anytime an individual is assigned duties they are not qualified to perform.

10.2. Journeyman Level Training:

10.2.1. Specialty Qualification. All qualifications for AFSC 1A731 apply to the 1A751 requirements.

10.2.1.1. Knowledge. In addition to knowledge required for the 3-level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to operate and maintain applicable aircraft weapons systems. Completion of qualification criteria in current assigned aircraft is mandatory.

10.2.1.2. Education. To attain the rank of SSgt, individual must be a graduate of the Airman Leadership School (ALS).

10.2.1.3. Training. Completion of 1AX51 CDC Aircrew Fundamentals Journeyman is a prerequisite to the 1A751 CDC, Aerial Gunner Journeyman, 12 months in upgrade training (9 months for retrainees) and recommendation by his or her supervisor is mandatory for award of the journeyman AFSC.

10.2.1.4. Experience. Qualification in and possession of AFSC 1A731. Also, experience operating and maintaining their primarily assigned aircraft systems.

10.2.1.5. Other. See paragraph 10.1.1.4

10.2.2. Training Sources. Completion of 1AX51 CDC Aircrew Fundamentals Journeyman is a prerequisite to the 1A751 Aerial Gunner Journeyman CDC. This satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 5-skill level. The STS identifies all core tasks required for qualification. Upgrade and qualification training are provided by qualified trainers using current Air Force Instructions for the duty position, program to be managed, or equipment to be used. Current training courses are listed in Part II, Section D of this CFETP.

10.2.3. Implementation. Entry into journeyman upgrade is accomplished after the individual completes initial qualification training (IQT) at their first duty location.

10.3. Craftsman Level Training:

10.3.1. Specialty Qualification.

10.3.1.1. Knowledge. In addition to knowledge required for the 5-skill level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to supervise personnel and operate and maintain applicable aircraft weapons systems.

10.3.1.2. Education. To assume the grades of SSgt and MSgt, individuals must be graduates of the Airman Leadership School (ALS) and NCO Academy, respectively.

10.3.1.3. Training. Be at least a Staff Sergeant (SSgt), completion of 1A751 CDCs (or hold a 5-skill level in the AFSC), 12 months in upgrade training (6 months for retrainees) and recommendation by his or her supervisor is mandatory for award of the craftsman AFSC.

10.3.1.4. Experience. Qualification in and possession of AFSC 1A751. Also, experience and qualification in advanced operations and maintenance of aircraft weapons systems.

10.3.1.5. Other. See paragraph 10.1.1.4.

10.3.2. Training Sources. The STS identifies all tasks required for qualification. Upgrade and qualification training are provided by qualified trainers using current Air Force Instructions for the duty position, program to be managed, or equipment to be used. Current training courses are listed in Part II, Section D of this CFETP.

10.3.3. Implementation. Trainees selected for promotion to SSgt will enter 7-level upgrade training the first day of the promotion cycle, (1 September each year). The only exception is promotion under the Stripes for Exceptional Performers (STEP) program. Additionally, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

10.4. Superintendent Level Training:

10.4.1. Specialty Qualification.

10.4.1.1. **Knowledge.** In addition to knowledge required for the 7-skill level qualification, an individual must possess advanced skills and knowledge of concepts and principles in the effective management of applicable aircraft weapons systems and personnel.

10.4.1.2. **Education.** Completion of in-resident USAF Senior NCO Academy or sister service equivalent. Additionally, SNCOs are expected to achieve award of the Community College of the Air Force (CCAF) Associate of Applied Science degree in this field.

10.4.1.3. **Training.** Must hold the rank of Senior Master Sergeant (SMSgt) and have supervisor's recommendation for award of the 9-skill level (active duty only).

10.4.1.4. **Experience.** Qualification in and possession of AFSC 1A771. Also, experience managing advanced operations and maintenance of aircraft mission systems.

10.4.1.5. **Other.** See paragraph 10.1.1.4.

10.4.2. **Training Sources.** USAF Senior NCO Academy (or sister service equivalent).

10.4.3. **Implementation.** Individual attains the rank of SMSgt and possesses the 7-skill level. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

Section D - Resource Constraints

11. Purpose. This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be reviewed and updated at least annually.

12. Apprentice Level Training. Hands on training is required for the following items during the Basic Aerial Gunner course.

13.3. Inert Pyrotechnics MK 6, MK 25, MK 18.

13.4.4. 7.62mm GAU-2/B Gun de-milled

13.6.4. 50 Caliber M3, GAU-18B Gun de-milled

13.7.4. 25mm GAU-12U Cannon de-milled

13.8.4. 30mm MK44 Cannon de-milled

13.10.1. 105mm cannon training mock up

16.4. Inert Ammunition 7.62mm, 50cal, 25mm, 30mm, 40mm, 105mm.

13. Journeyman Level Training. None identified.

14. Craftsman Level. None identified.

PART II

Section A - Specialty Training Standard (STS)

1. Implementation. This STS will be used for technical training provided by AETC for classes beginning January 2012.

2. Purpose. As prescribed in AFI 36-2201, *Classifying Military Personnel, (Officer and Enlisted)* this STS:

2.1. Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for Airmen to perform duties at the 3-, 5-, and 7-skill level AFSC in the Airborne Operations Specialty ladder of the Aircrew Operation Career Field. These are based on an analysis of the duties in AFECD.

2.2. Lists in column 2 (3-Skill Level and 5-Skill Level) the formal training and correspondence course requirements as described in the Education and Training Course Announcements (ETCA) web site at: <https://etca.randolph.af.mil/> and the career knowledge provided by the correspondence course. There is no advanced course. See AFIADL/AFSC/CDC listing maintained by the unit OJT manager for current CDC listings.

2.3. **Qualitative Requirements.** Figure 5 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.4. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by SNCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Questions are based on study references listed in the WAPS study catalog. Individual responsibilities are in AFI 36-2605.

3. Recommendations. Report unsatisfactory performance of individual course graduates to 37 TRG/DOS, 1220 Truemper Street, Suite 1, Lackland AFB TX 78236-5568. Please reference specific STS paragraphs.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

BRETT T. WILLIAMS, Maj Gen, USAF
Director of Operations
DCS, Operations, Plans & Requirements

2 Attachments:

1. Qualitative Requirements
2. STS: Aerial Gunner (1A7X1)

THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY

NAME OF TRAINEE

PRINTED NAME (*Last, First Middle Initial*)INITIALS
(*Written*)

SSAN

PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS

N/I	N/I
N/I	N/I
N/I	N/I
N/I	N/I
N/I	N/I
N/I	N/I

QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY

	SCALE VALUE	DEFINITION: The Individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
**TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
***SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

EXPLANATIONS

- ** A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)
- *** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.
- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.
- x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.
- @ This mark is used to show that training is conducted by Aerospace Physiology during Aircrew Fundamentals.
- @ @ This mark is used to show the five general education requirements by CLEP/DANTES (pass or fail) towards CCAF degree.

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
1. CAREER LADDER PROGRESSION						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-401		AFECD				
AFI 11-402		AFPD 10-1				
AFI 36-2101		AFPAM 36-2241				
1.1. Progression and Duties Within 1AXXX / 1UXXX AFSCs			A	-	B	-
1.1.1. Progression and Duties Within 1A7XX AFSC			-	A	-	B
1.2. MAJCOM, Total Force and Joint / Combined Service			A	-	B	-
1.3. Air Combat Command			-	A	-	-
1.3.1. Air Force Special Operations Command			-	A	-	-
2. SECURITY						
AF Instructions	Technical Orders	Miscellaneous				
AFI 10-701		DOD O-2000.12-H				
AFI 13-207FOUO		DODI 2000.16				
AFI 31-101FOUO		DODI 5200.1-R				
		DODI 5200.8-R				
2.1. COMSEC / OPSEC			A	-	B	-
2.2. Anti-Hijacking / Anti-Terrorism			A	-	-	-
2.3. Perform Information and Physical Security Procedures			1a	-	-	-
2.3.1. Information & Physical Security			-	-	B	-
2.4. Flight-line Security Procedures			A	-	-	-
3. CREW RESOURCE MANAGEMENT (CRM)						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-290						
3.1. Fundamentals			A	-	B	-
3.1.1. Application of CRM			-	-	-	B
3.2. Communication						
3.2.1. Terms and Definitions			A	-	-	-
3.2.2. Radio Discipline			A	-	-	-
4. AVIATION SAFETY						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-301 V1/V2/V4	T.O. 1C-130E-1	AFH 11-203 V1/V2				
		AFMAN 24-204				
		AFPAM 91-212				
		AMCH 11-214				
4.1. Aviation Hazards			A	-	B	-
4.2. Emergency Equipment and Safety Measures			A	-	-	-
4.3. Weather			A	-	-	-
4.4. Bird Avoidance Strike Hazard (BASH) Program			A	-	B	-
4.5. Hazardous Materials (HAZMAT)			A	-	B	-

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
5. PUBLICATIONS						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-202 V2	T.O. 00-5-1/2					
AFI 11-215	T.O. 00-20-1					
AFI 33-360						
5.1. Air Force Technical Orders (T.O.s)			B	-	B	-
5.1.1. Post Changes			2b	-	-	-
5.2. Publications			B	-	B	-
5.2.1. Post Changes			2b	-	-	-
5.3. Flight Publication Improvement Reports			B	-	B	-
5.4. AFTO IMT 781 Series			B	-	B	-
5.5. Flight Crew Information File (FCIF)			B	-	B	-
6. AIRCREW / FLIGHT MANAGEMENT						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-202 V1		AFPD 11-4				
AFI 11-401						
AFI 11-402						
AFI 11-412						
AFI 38-201						
AFI 48-123						
6.1. Responsibilities of HQ USAF and MAJCOM Aircrew Managers			-	-	A	-
6.2. Flight Aviation Management			A	-	A	-
6.3. Aviation Service / Aeronautical Ratings / Badges			A	-	B	-
6.4. Flight pay / Career Enlisted Flight Incentive Pay (CEFIP) / Gates			A	-	B	-
6.5. Flight Surgeon Functions			A	-	B	-
6.6. Aircrew Member Responsibilities			A	-	B	-
7. AIRCREW TRAINING / SUPERVISION						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-202 V1/V2		Education & Training Course Announcements (ETCA) website				
AFI 36-2101						
AFI 36-2201						
7.1. Physiological Training			@	-	-	-
7.2. General Education Requirements			@ @	-	-	-
7.3. Training Qualifications			A	-	B	-
7.4. Standardization / Evaluation Functions			A	-	B	-
7.5. Aircrew Flight Equipment			A	-	A	-

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
8. AERODYNAMICS						
AF Instructions	Technical Orders	Miscellaneous				
	T.O. 1-1B-50	AFH 11-203 V1				
	T.O. 1C-130E-1	FAA-H-8083-3A				
	T.O. 1C-130A-9	FAA-H-8083-21				
	T.O. 1E-3A-1	FAA-H-8083-25A				
	T.O. 1H-60(H)G-1					
8.1. Fixed Wing			A	-	-	B
8.2. Rotary Wing			A	-	-	B
8.3. Aircraft Weight and Balance						
8.3.1. Theory			A	-	-	-
9. AIRCREW ACTIVITIES						
AF Instructions	Technical Orders	Miscellaneous				
AFI 10-707	T.O. 1C-130E-1					
AFI 11-202 V1/V3	T.O. 1C-130A-9					
9.1. Mission Briefings			A	-	-	-
9.2. Egress Procedures			A	-	-	-
9.3. Oxygen Requirements			@	-	A	-
9.4. Joint Spectrum Interference Resolution (JSIR) / Air Force Spectrum Interference Resolution (AFSIR)			A	-	B	-
10. AIRCRAFT SYSTEMS / EQUIPMENT						
AF Instructions	Technical Orders	Miscellaneous				
AFI 11-202 V1/V3	T.O. 1H-60(H) G-1,	ATP-56(B)				
	T.O. 1C-130(A)H-1,					
	T.O. 1C-130(A)U-1,					
	T.O. 1C-130E-1					
	T.O. 1-1C-1					
	T.O. 1-1C-1-20					
	T.O. 00-25-172					
10.1. Electrical			A	A	-	-
10.2. Hydraulic			A	A	-	B
10.3. Environmental			A	-	-	-
10.3.1. Bleed Air Systems			-	A	-	-
10.3.2. Air Conditioning Systems			-	A	-	-
10.3.3. Pressurization Systems			-	A	-	B
10.4. Communications			A	A	-	B
10.5. Oxygen			@	-	-	B
10.6. Fuel			A	A	-	B
10.7. Engines			A	A	-	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
10.8. Flight Instruments			A	A	-	-
10.9. Flight Controls			A	A	-	B
10.10. Landing Gear Systems			-	A	-	-
10.11. Brake Systems			-	A	-	-
10.12. Propeller Systems			-	A	-	B
10.13. Rotor Systems			-	A	-	B
10.14. Prop Rotor Systems			-	A	-	-
10.15. Transmission / Drives Systems			-	A	-	B
10.16. Fire Detection Systems			-	A	-	B
10.17. Fire Extinguishing Systems			-	A	-	B
10.18. Auxiliary Power Systems			-	A	-	B
10.19. Sensors			-	A	-	B
11. AIRCRAFT WEAPONS SYSTEMS, COUNTERMEASURES, AND PYROTECHNICS						
AF Instructions	Technical Orders	Miscellaneous				
	TO 11W1-13-3-132	AFMAN 91-201				
	TO 11W1-13-5-2	AFTTP3-3.AC130				
	T.O. 1H-60(H) G-1,	AFTTP3-3.HH-60				
	T.O. 1C-130(A)H-1,					
	T.O. 1C-130(A)U-1,					
11.1. Defensive Systems Electronic / Infrared Countermeasures (ECM / IRCM)			-	A	-	A
11.2. Pyrotechnics						
11.2.1. Nomenclature / Operating Characteristics			-	A	-	B
11.2.2. Inspect			-	1a	-	b
11.3. Aircraft Weapon Systems						
11.3.1. Types / Components			-	A	-	-
11.3.2. 7.62MM (GAU-2/B) Gun System						
11.3.2.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.2.2. Inspect			-	1a	-	b
11.3.2.3. Accessories and Chutes			-	A	-	A
11.3.3. M-240 Machine Gun System						
11.3.3.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.3.2. Inspect			-	1a/a	-	b
11.3.3.3. Accessories			-	A	-	B
11.3.4. GAU-18B and M3 .50 Caliber Machine Gun						
11.3.4.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.4.2. Inspect			-	1a	-	b
11.3.4.3. Accessories and Chutes			-	A	-	B
11.3.5. GAU-12U 25MM Gun System						
11.3.5.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.5.2. Inspect			-	1a/a	-	b

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
11.3.5.3. Ammunition Storage and Handling System			-	A	-	B
11.3.6. MK44 30MM Gun System						
11.3.6.1. Nomenclature / Operating Characteristics			-	-	-	-
11.3.6.2. Inspect			-	-	-	-
11.3.6.3. Ammunition Handling Systems			-	-	-	-
11.3.7. M2A1 40MM Gun System						
11.3.7.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.7.2. Inspect			-	1a	-	b
11.3.8. 105MM Gun System						
11.3.8.1. Nomenclature / Operating Characteristics			-	A	-	B
11.3.8.1. Inspect			-	1a/a	-	b
12. TRAINABLE GUN MOUNT (TGM)						
AF Instructions	Technical Orders	Miscellaneous				
	T.O. 1C-130(A)H-1-43					
	T.O. 1C-130(A)U-1-43					
12.1. Nomenclature / Operating Characteristics			-	A	-	B
13. AMMUNITION STORAGE SYSTEMS						
AF Instructions	Technical Orders	Miscellaneous				
	T.O. 1C-130(A)H-1-43	AFTTP3-3.AC130				
	T.O. 1C-130(A)U-1-43	AFTTP3-3.HH-60				
13.1. Operating Procedures			-	A	-	B
13.2. Normal Operation			-	-	-	B
13.3. Limitations			-	-	-	B
13.4. Inspection			-	-	-	B
14. AMMUNITION						
AF Instructions	Technical Orders	Miscellaneous				
		AFTTP3-3.AC130				
		AFTTP3-3.HH-60				
14.1. Operating Procedures			-	A	-	B
14.2. Inspect			-	1a	-	b
15. AIRCRAFT CONTAINING EXPLOSIVE MATERIALS						
AF Instructions	Technical Orders	Miscellaneous				
		AFMAN 91-201				
15.1. Operating Procedures			-	A	-	B

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			A 3-Skill Level		B 5-Skill Level	
			Aircrew Fundamentals	AFSC Technical Principles	Aircrew Fundamentals CDC	AFSC Technical Principles CD
16. AUXILIARY SYSTEMS						
AF Instructions	Technical Orders	Miscellaneous				
	T.O. 1H-60(H) G-1,					
	T.O. 1C-130(A)H-1,					
	T.O. 1C-130(A)U-1,					
	T.O. 00-25-245					
16.1. Cargo Sling						
16.1.1. Principles of Operation			-	-	-	B
16.1.2. System Components			-	A	-	A
16.1.3. Limitations			-	-	-	A
16.2. Cabin Door (H-60)						
16.2.1. Principles of Operation			-	-	-	B
16.2.2. System Components			-	A	-	B
16.2.3. Limitations			-	-	-	B
16.2.4. Operate			-	-	-	-
16.3. Cargo Door and Ramp System (AC-130)						
16.3.1. Principles of Operation			-	-	-	B
16.3.2. System Components			-	A	-	B
16.3.3. Limitations			-	-	-	B
16.3.4. Operate			-	-	-	-
16.3.5. Detect Malfunctions / Take Corrective Actions			-	-	-	-
16.4. Cargo Loading and Unloading						
16.4.1. Operations			-	A	-	-
16.5. Cargo Tie-down Devices						
16.5.1. Use Cargo Tie-down Devices			-	1a	-	-
16.6. Alternate Insertion / Extraction			-	A	-	A

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7. AFI 11-202 Vol 3, GENERAL FLIGHT RULES, 22 OCT 2010
8. AFH 11-203 Vol 1, WEATHER FOR AIRCREWS, 1 MAR 1997
9. AFH 11-203 Vol 2, WEATHER FOR AIRCREWS, 16 MAY 2002
10. AFI 11-215, USAF FLIGHT MANUALS PROGRAM (FMP), 22 DEC 2008
11. AFI 11-290, COCKPIT/CREW RESOURCE MANAGEMENT TRAINING PROGRAM, 11 APR 2001
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16. AFI 11-402, AVIATION AND PARACHUTIST SERVICE, AERONAUTICAL RATINGS AND AVIATION BADGES, 13 DEC 2010
17. AFI 11-412, AIRCREW MANAGEMENT, 10 DEC 2009
18. AFI 13-207, PREVENTING AND RESISTING AIRCRAFT PIRACY (HIJACKING) (FOUO), 21 JUN 2010
19. AFMAN 24-204 (INTERSERVICE), PERPARING HAZARDOUS MATERIALS FOR MILITARY AIR SHIPMENTS, 1 SEP 2009
20. AFMAN 91-201, EXPLOSIVES SAFETY STANDARDS, 12 JAN 2011
21. AFI 31-101, INTEGRATED DEFENSE (FOUO), 8 OCT 2009
22. AFI 33-360, PUBLICATIONS AND FORMS MANAGEMENT, 18 MAY 2006 (Incorporating 11 JUN 2009 Changes)
23. AFI 36-2101, CLASSIFYING MILITARY PERSONNEL (OFFICER AND ENLISTED), 14 JUN 2010
24. AFI 36-2201, AIR FORCE TRAINING PROGRAM, 15 SEP 2010
25. AFI 38-201, DETERMINING MANPOWER REQUIREMENTS, 30 DEC 2003
26. AFI 48-123, MEDICAL EXAMINATIONS AND STANDARDS, 24 SEP 2009 (Incorporating 1 JUN 2010 Changes)
27. AMCH 11-214, AMC AIRCREW HAZARDOUS MATERIALS HANDBOOK, 15 FEB 2008
28. AFPAM 91-212, BIRD/WILDLIFE AIRCRAFT STRIKE HAZARD (BASH) MANAGEMENT TECHNIQUES, 1 FEB 2004

The following references can be found at *Air Force Personnel Services* webpage: <http://ask.afpc.randolph.af.mil/>

1. **AFECD, AIR FORCE ENLISTED CLASSIFICATION DIRECTORY**, updated quarterly – select “View Force management Programs” and search AFECD

The Education & Training Course Announcements (ETCA) can be found at webpage: <https://etca.randolph.af.mil/>

The following references can be found at *DoD Issuances* - webpage: <http://www.dtic.mil/whs/directives/corres/ins1.html>

1. DODI 2000.16, DoD ANTITERRORISM (AT) STANDARDS, OCT 2006 (Incorporating DEC 2006 Changes)
2. DODI 5200.1-R, INFORMATION SECURITY PROGRAM, JAN 1997
3. DODI 5200.08, SECURITY OF DOD INSTALLATIONS AND RESOURCES, December 10, 2005
4. DOD 5200.08-R (Reference), PHYSICAL SECURITY PROGRAM, April 9, 2007
5. DOD 200.12-H (Handbook), PROTECTION OF DoD PERSONNEL AND ACTIVITIES AGAINST ACTS OF TERRORISM AND POLITICAL TURBULENCE, FEB 2004

Section B - Course Objective List

4. Measurement. Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check. **P** indicates performance test only.

5. Standard. The standard is 85% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

6. Proficiency Level. Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

7. Course Objective. This section is N/A.

Section C - Support Material

8. The following list of support materials is not all-inclusive; however, it covers the most frequently referenced areas.

NOTE: This area is reserved.

Section D - Training Course Index

9. Purpose. This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

10. Air Force In-Residence Courses.

COURSE NUMBER	COURSE TITLE	LOCATION
L3AQR1A711 01AB	Aircrew Fundamentals- Aerial Gunner	Lackland AFB, TX
L3ABR1A731 048B	Basic Aerial Gunner Course	Lackland AFB, TX
S-V80-A	Combat Survival Training	Fairchild AFB, WA
S-V84-A	Underwater Egress Training	Fairchild AFB, WA Pensacola NAS, FL
S-V86-A	Water Survival Training (Parachuting)	Pensacola NAS, FL
S-V90-A	Water Survival Training (Non-Parachuting)	Fairchild AFB, WA
HH60G-MG-IQ	HH-60G Mission Gunner Initial Qualification	Kirtland AFB, NM
HH60G-MG-SR	HH-60G Mission Gunner Simulator Refresher	Kirtland AFB, NM
AC-130HMQ	AC-130H Aerial Gunner Mission Qualification	Cannon AFB, NM
AC-130UMQ	AC-130U Aerial Gunner Mission Qualification	Hurlburt Field, FL

11. Air Force Institute for Advanced Distributed Learning (AFIADL) Courses.

COURSE NUMBER	COURSE TITLE
CDC 1AX51	Aircrew Fundamentals Journeyman
CDC 1A751	Aerial Gunner Journeyman

Section E - MAJCOM Unique Requirements

The following list of MAJCOM unique requirements is not all-inclusive; however, it covers the most frequently referenced areas.

12. Air Force Special Operations Command Courses.

COURSE NUMBER	COURSE TITLE	LOCATION
AFSOC 155000	Introduction to Special Operations Course	Hurlburt Field, FL
AC-130HMQ	AC-130H Aerial Gunner Mission Qualification	Cannon AFB, NM
AC-130UMQ	AC-130U Aerial Gunner Mission Qualification	Hurlburt Field, FL
AC-130HIQ	AC-130H Aerial Gunner Instructor Qualification	Cannon AFB, NM
AC-130UIQ	AC-130U Aerial Gunner Instructor Qualification	Hurlburt Field, FL

13. Air Education and Training Command Courses.

COURSE NUMBER	COURSE TITLE	LOCATION
HH60G-MG-IQ	HH-60G Mission Gunner Initial Qualification	Kirtland AFB, NM
HH60G-MG-SR	HH-60G Mission Gunner Simulator Refresher	Kirtland AFB, NM
HH60G-IG-UQ	HH-60G Instructor Gunner Upgrade Qualification	Kirtland AFB, NM